



1

SEQUENCE LISTING

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 19

<170> PatentIn Ver. 2.1

<210> 1
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<222> (1)...(12)
<223> Myosin light chain 1

<220>
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<222> (1)
<223> May be any amino acid.

<220>
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<222> (2)
<223> May be any amino acid.

<220>
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<222> (7)
<223> May be either Pro or Ala.

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Xaa Xaa Lys Lys Pro Glu Xaa Lys Ala Asp Asp Ala
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<210> 2
<211> 12
<212> PRT
<213> Unknown

<220>
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<223> Myosin light chain 1

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OCT 30 2002

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<221> PEPTIDE
<222> (1)
<223> May be any amino acid.

<400> 2
Xaa Pro Ala Pro Ala Ala Ala Pro Ala Ala Ala Pro
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<212> PRT
<213> Unknown

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<223> malate dehydrogenase

<220>
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<223> May be any amino acid.

<220>
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<222> (8)
<223> May be any amino acid.

<400> 3
Xaa Lys Val Ala Leu Gly Ala Xaa Gly Gly Ile
1 5 10

<210> 4
<211> 13
<212> PRT
<213> Unknown

<220>
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<222> (1)..(13)
<223> ATP g synthase chain

<220>
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<222> (1)
<223> May be any amino acid.

<220>
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<222> (2)
<223> May be any amino acid.

<400> 4
Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
1 5 10

<210> 5
<211> 10

<212> PRT
<213> Unknown

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<223> ATP synthase oligomycin conferring protein

<220>
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<223> May be any amino acid.

<220>
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<222> (2)
<223> May be any amino acid.

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Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Unknown

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<223> serum albumin

<220>
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<222> (1)
<223> May be any amino acid.

<400> 6
Xaa Ala His Lys Ser Glu Ile Ala His Arg
1 5 10

<210> 7
<211> 11
<212> PRT
<213> Unknown

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<223> triose phosphate isomerase

<220>
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<222> (1)
<223> May be any amino acid.

<220>
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<222> (4)

<223> May be Arg or Leu.

<400> 7

Xaa Pro Ser Xaa Lys Phe Phe Val Gly Gly Asn		
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<210> 8

<211> 209

<212> PRT

<213> Unknown

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<222> (1)..(209)

<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala			
1	5	10	15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro		
20	25	30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu		
35	40	45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala		
50	55	60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln			
65	70	75	80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys		
85	90	95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp		
100	105	110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr		
115	120	125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg		
130	135	140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala			
145	150	155	160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys		
165	170	175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn	Ile	Asp	Ala	Leu	Ser	Gly	Met	Glu	Gly	Arg	Lys	Lys	Lys	Phe	Glut
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Ser

<210> 9
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<212> PRT
<213> Unknown

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<222> (1)..(186)
<223> Human slow skeletal troponin I

<220>
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<300>
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<304> 7
<305> 3
<306> 346-357
<307> Jul-1990

<400> 9
Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
1 5 10 15
Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30
His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
35 40 45
Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60
Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80
Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95
Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110
Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125
Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140
Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Ser Gln
 180 185

<210> 10
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 <212> PRT
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 <223> Human fast skeletal troponin I

<220>
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<300>
 <303> Biochim. Biophys. Acta
 <304> 1217
 <306> 338-340
 <307> 1994-04-06

<400> 10
 Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
 1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30

Glu Ser Arg Arg Glu Ala Glu Lys Gln Asn Tyr Leu Ala Glu His Cys
 35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80

Met Glu Val Arg Val Gln Lys Thr Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175

Phe Glu Ser Glu Ser

<210> 11
<211> 210
<212> PRT
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<220>
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<222> (1)..(210)
<223> Rat cardiac troponin I

<220>
<223> Swiss prot identification number P23693

<300>
<303> Biochemistry
<304> 30
<305> 3
<306> 707-712
<307> 1991-01-22

<400> 11
Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
1 5 10 15

Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
20 25 30

Pro His Ala Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
35 40 45

Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
50 55 60

Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
65 70 75 80

Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
85 90 95

Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
100 105 110

Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
115 120 125

Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
130 135 140

Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
145 150 155 160

Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
165 170 175

Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
180 185 190

Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Phe

195

200

205

Glu Gly
210

<210> 12
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<223> Rat slow skeletal troponin I

<220>
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14327-14333
<307> 1989-08-25

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Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln

180

185

<210> 13
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<220>
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<300>
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Gly Asp Glu Glu Lys Arg Asn Arg Ala Ile Thr Ala Arg Arg Gln His
1 5 10 15

Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
20 25 30

Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
35 40 45

Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
50 55 60

Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
65 70 75 80

Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
85 90 95

Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
100 105 110

Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
115 120 125

Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
130 135 140

Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Glu Ser Glu Ser
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 <222> (1)...(287)
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<300>
 <303> FEBS Lett.
 <304> 328
 <305> 1-2
 <306> 139-144
 <307> 1993-08-09

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 Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Gln Glu
 1 5 10 15

Glu Ala Ala Val Glu Glu Gln Glu Glu Ala Ala Glu Glu Asp Ala Glu
 20 25 30

Ala Glu Ala Glu Thr Glu Glu Thr Arg Ala Glu Glu Asp Glu Glu Glu
 35 40 45

Glu Glu Ala Lys Glu Ala Glu Asp Gly Pro Met Glu Glu Ser Lys Pro
 50 55 60

Lys Pro Arg Ser Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp
 65 70 75 80

Gly Glu Arg Val Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys
 85 90 95

Asp Leu Asn Glu Leu Gln Ala Leu Ile Glu Ala His Phe Glu Asn Arg
 100 105 110

Lys Lys Glu Glu Glu Leu Val Ser Leu Lys Asp Arg Ile Glu Arg
 115 120 125

Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu
 130 135 140

Lys Glu Arg Gln Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu
 145 150 155 160

Glu Glu Asn Arg Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala
 165 170 175

Leu Ser Asn Met Met His Phe Gly Gly Tyr Ile Gln Lys Gln Ala Gln
 180 185 190

Thr Glu Arg Lys Ser Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys
 195 200 205

Lys Ile Leu Ala Glu Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn
 210 215 220

Glu Asp Gln Leu Arg Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile Tyr
 225 230 235 240

Asn Leu Glu Ala Glu Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln
 245 250 255

Lys Tyr Glu Ile Asn Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys
 260 265 270

Val Ser Lys Thr Arg Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
 275 280 285

<210> 15

<211> 277

<212> PRT

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<222> (1)..(277)

<223> Human slow skeletal troponin T

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<223> Swiss prot identification number P13805

<300>

<303> J. Biol. Chem.

<304> 262

<305> 33

<306> 16122-16126

<307> 1987-11-25

<400> 15

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 1 5 10 15

Ala Ala Glu Glu Glu Glu Ala Pro Glu Glu Pro Glu Pro Val Ala
 20 25 30

Glu Pro Glu Glu Glu Arg Pro Lys Pro Ser Arg Pro Val Val Pro Pro
 35 40 45

Leu Ile Pro Pro Lys Ile Pro Glu Gly Glu Arg Val Asp Phe Asp Asp
 50 55 60

Ile His Arg Lys Arg Met Glu Lys Asp Leu Leu Glu Leu Gln Thr Leu
 65 70 75 80

Ile Asp Val His Phe Glu Gln Arg Lys Lys Glu Glu Glu Glu Leu Val
 85 90 95

Ala Leu Lys Glu Arg Ile Glu Arg Arg Arg Ser Glu Arg Ala Glu Gln
 100 105 110

Gln Arg Phe Arg Thr Glu Lys Glu Arg Glu Arg Gln Ala Lys Leu Ala
 115 120 125

Glu Glu Lys Met Arg Lys Glu Glu Glu Ala Lys Lys Arg Ala Glu
 130 135 140

Asp Asp Ala Lys Lys Lys Lys Val Leu Ser Asn Met Gly Ala His Phe
 145 150 155 160

Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
 165 170 175
 Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
 180 185 190
 Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
 195 200 205
 Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
 210 215 220
 Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
 225 230 240
 Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
 245 250 255
 Ile Ser His Ala Gln Lys Phe Arg Lys Gly Ala Gly Lys Gly Arg Val
 260 265 270
 Gly Gly Arg Trp Lys
 275

<210> 16
 <211> 257
 <212> PRT
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 <300>
 <303> DNA Cell Biol.
 <304> 13
 <305> 3
 <306> 217-233
 <307> MAR-1994

 <400> 16
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 1 5 10 15

 Glu Ala Gln Glu Glu Glu Val Gln Glu Asp Thr Ala Glu Glu Asp
 20 25 30

 Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
 35 40 45

 Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
 50 55 60

 Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala
 65 70 75 80

Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ala	Leu	Lys	Glu	Arg	Ile	Glu				
																85	90	95	
Lys	Arg	Arg	Ala	Glu	Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Ala	Glu	Lys				
																100	105	110	
Glu	Arg	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Lys	Ala	Arg	Arg	Glu				
																115	120	125	
Glu	Glu	Asp	Ala	Lys	Arg	Arg	Ala	Glu	Asp	Asp	Leu	Lys	Lys	Lys	Lys				
																130	135	140	
Ala	Leu	Ser	Ser	Met	Gly	Ala	Asn	Tyr	Ser	Ser	Tyr	Leu	Ala	Lys	Ala				
																145	150	155	160
Asp	Gln	Lys	Arg	Gly	Lys	Lys	Gln	Thr	Ala	Arg	Glu	Met	Lys	Lys	Lys				
																165	170	175	
Ile	Leu	Ala	Glu	Arg	Arg	Lys	Pro	Leu	Asn	Ile	Asp	His	Leu	Gly	Glu				
																180	185	190	
Asp	Lys	Leu	Arg	Asp	Lys	Ala	Lys	Glu	Leu	Trp	Glu	Thr	Leu	His	Gln				
																195	200	205	
Leu	Glu	Ile	Asp	Lys	Phe	Glu	Phe	Gly	Glu	Lys	Leu	Lys	Arg	Gln	Lys				
																210	215	220	
Tyr	Asp	Ile	Thr	Thr	Leu	Arg	Ser	Arg	Ile	Asp	Gln	Ala	Gln	Lys	His				
																225	230	235	240
Ser	Lys	Lys	Ala	Gly	Thr	Pro	Ala	Lys	Gly	Lys	Val	Gly	Gly	Arg	Trp				
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Lys

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<210> 17
<211> 298
<212> PRT
<213> Unknown
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<222> (1)..(298)
<223> Rat cardiac troponin T
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<220>
<223> Swiss prot identification number P50753
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<300>
<303> J. Biol. Chem.
<304> 264
<305> 24
<306> 14471-14477
<307> 1989-08-25
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Ser Asp Ala Glu Glu Glu Val Val Glu Tyr Glu Glu Gln Glu Glu
1 5 10 15
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Glu Asp Trp Ser Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
 20 25 30

Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
 35 40 45

Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
 50 55 60

Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65 70 75 80

Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
 85 90 95

Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
 100 105 110

Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
 115 120 125

Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
 130 135 140

Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
 145 150 155 160

Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
 165 170 175

Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met
 180 185 190

Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser
 195 200 205

Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Ile Leu Ala Glu
 210 215 220

Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
 225 230 235 240

Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu
 245 250 255

Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
 260 265 270

Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
 275 280 285

Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
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<210> 18

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<223> Rat fast skeletal troponin T

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<300>
<303> J. Mol. Biol.
<304> 188
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<306> 313-324
<307> 1986-Apr-5

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20 25 30
Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
35 40 45
Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
50 55 60
Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
65 70 75 80
Ala Arg Lys Lys Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
85 90 95
Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
100 105 110
Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
115 120 125
Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
130 135 140
Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
145 150 155 160
Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
165 170 175
Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
180 185 190
Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
195 200 205
Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
210 215 220
Lys Tyr Asp Ile Thr Thr Leu Arg Ser Arg Ile Asp Gln Ala Gln Lys
225 230 235 240

His Ser Lys Lys Ala Gly Ala Thr Ala Lys Gly Lys Val Gly Gly Arg
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Trp Lys

<210> 19

<211> 192

<212> PRT

<213> Unknown

<220>

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<222> (1)..(192)

<223> rat myosin light chain 1, atrial isoform

<220>

<223>

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<303> N

<304> 18

<305> 6

<306> 15

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Ala Phe Asp Pro Lys Ser Val Lys Ile Asp Phe Ser Ala Asp Gln Ile
35 40 45

Glu Glu Phe Lys Glu Ala Phe Ser Leu Phe Asp Arg Thr Pro Thr Gly
 50 55 60

Glu Met Lys Ile Thr Tyr Gly Gln Cys Gly Asp Val Leu Arg Ala Leu
 65 70 75 80

Gly Gln Asn Pro Thr Asn Ala Glu Val Leu Arg Val Leu Gly Lys Pro
85 90 95

Lys Pro Glu Glu Met Asn Ser Lys Thr Leu Asp Phe Glu Met Phe Leu
100 105 110

Pro Ile Leu Gln His Ile Ser Arg Asn Lys Glu Gin Gly Thr Tyr Glu
115 120 125

Asp Phe Val Glu Gly Leu Arg Val Phe Asp Lys Glu Ser Ash Gly Thr
130 135 140

Val Met Gly Ala Glu Leu Arg His Val Leu Ala Thr Leu Gly Glu Lys
145 150 155 160

Met Ser Glu Ala Glu Val Glu Gin Leu Leu Thr Gly Gin Glu Asp Ala
165 170 175

Asn Gly Cys Ile Asn Tyr Glu Ala Phe Val Lys His Val Met Ser Gly

17

180

185

190